

EXHIBIT A

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Name POLYETHYLENE GLYCOL,[1,2-3H]-
Version # 01
Item # NET405000MC
Manufacturer Information PerkinElmer Life Sciences
549 Albany Street
Boston, MA 02118
CHEMTREC 800-424-9300
Technical Support 800-446-0035

2. COMPOSITION / INFORMATION ON INGREDIENTS

Non-hazardous ingredient(s)	CAS #	Percent
POLY(ETHYLENE GLYCOL)	25322-68-3	90 - 100

3. HAZARDS IDENTIFICATION

4. FIRST AID MEASURES

General advice

In case of feeling unwell: Consult a physician.

First Aid

Skin contact

Wash off with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Inhalation

Move to fresh air.

Ingestion

Rinse mouth. Immediately give large quantities of water to drink.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

water spray.

carbon dioxide (CO2), dry chemical, or foam

Specific hazards

In the event of fire toxic fumes may be formed.

Special protective equipment for firefighters

Wear suitable protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Methods for cleaning up

Soak up with inert absorbent material. Clean contaminated surface thoroughly. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Do not breathe vapours/dust. Avoid contact with skin and eyes. Use only in area provided with appropriate exhaust ventilation.

Storage

Keep tightly closed. Keep contents under nitrogen.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Wash hands before breaks and immediately after handling the product.

Respiratory protection

No personal respiratory protective equipment normally required.

Hand protection

protective gloves

Eye protection

safety glasses with side-shields

Skin and body protection

lab coat

9. PHYSICAL & CHEMICAL PROPERTIES

General Information

Form

solid

Color

white

Important health, safety and environmental information

Flash Point 113 °C (235.4 °F)

Auto Ignition 305 °C (581 °F)

Flammability Class Combustible IIIB

Physical Properties

Melting Point 57 - 61 °C (134.6 - 141.8 °F)

Specific Gravity 1.21 g/cm³

Vapor Density 1 g/l

Vapor Pressure 0.01 mm Hg 20 °C

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability

Stable

Hazardous decomposition products

carbon oxides

Incompatibility

strong oxidizing agents

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

May be harmful by inhalation, in contact with skin and if swallowed.

May cause eye irritation.

May cause skin irritation.

May be irritating to mucous membranes and upper respiratory tract.

12. ECOLOGICAL INFORMATION

Mobility

Not available

Ecological Information

Not available

13. DISPOSAL CONSIDERATIONS

Disposal Instructions

In accordance with local and national regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations

14. TRANSPORTATION INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

Recommended use

For research use only.

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life Sciences shall not be held liable for any damage resulting from handling or from contact with the product.